

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A reluctance electric machine comprising:

- (a) a stator part with stator teeth of magnetically conductive material that are provided with coil windings;
- (b) a rotor part arranged coaxially with respect to the stator part and located opposite the stator part so as to leave free an air gap therebetween, the rotor part having a number of discrete poles of magnetically conductive material that project in the direction towards the stator part;
- (c) a-annular components mounted on the stator part with two legs disposed on sides of the stator teeth forming channels between the legs and the stator teeth for channelizing coolant flow at least for partial sections of the coil windings of the stator part;
- (d) a sealing layer on the stator part facing the air gap and extending between the legs of the annular component, the sealing layer comprising a first layer for fulfilling the sealing function and a second layer for taking up the forces acting on the sealing layer; and

(e) a liquid cooling medium for flow in the channel.

Claims 2-3 (Previously Canceled)

Claims 4-5 (Canceled)

Claim 6 (Previously Amended): A reluctance electric machine according to claim 1, wherein the stator teeth have internal flow passages for the cooling medium.

Claim 7 (Previously Amended): A reluctance electric machine according to claim 1, wherein the stator part and the rotor part with its rotor poles are coaxial and the stator part has a smaller diameter than the rotor part with its rotor poles.

Claim 8 (Previously Amended): A reluctance electric machine according to claim 1, wherein the stator part with its stator teeth and the rotor part are coaxial and the stator part with its stator teeth has a larger diameter than the rotor part.

Claim 9 (Previously Amended): A reluctance electric machine according to claim 1, further comprising at least one rib on the inner circumferential area of the stator part, on the side directed away from the rotor part, for increasing the heat dissipation.

Claim 10 (Previously Amended): A reluctance electric machine according to claim 1, wherein the coil windings, in the winding head portions located on the face side of the stator teeth, are formed with flow passages for the cooling medium that are left free between coil winding conductors.

Claim 11 (Previously Amended): A reluctance electric machine according to claims 1, wherein the coil windings of the stator part comprise individual coils that are not interlinked with respect to the magnetic flux.

Claim 12 (Previously Amended): A reluctance electric machine according to claim 1, further comprising a first, internal cooling circuit for circulating the cooling medium and a second, external cooling circuit for circulating another cooling medium, the external cooling circuit being connected to the internal cooling circuit via a heat exchanger.

Claim 13 (Original): A reluctance electric machine according to claim 12, further comprising a circulation pump coupled to the internal cooling circuit.

Claim 14 (Previously Amended): A reluctance electric machine according to claim 12, wherein the internal cooling circuit and the heat exchanger are integrated in a common space on the reluctance electric machine.

Claim 15 (New): A reluctance electric machine according to claim 1, wherein the annular component is comprised of a plastic material.